HFS2 (JGW-2F) MOS RELAY



Features

- Photo isolation
- 1500V Dielectric strength
- Insulation resistance:1000MΩ
- Printed circuit board mount
- RoHS compliant

INPUT (TA = 25°C)

Control current range	5mA to 20mA
Max. reverse protection voltage	3V
Must release current	0.4mA
Must operate current	5mA

DESCRIPTION

HFS2 solid state relay comes in a super-miniature package measuring (L)10.3mm x (W)6.4mm x (H)3.5mm.Low on resistance(Max.50Ω) and low-level off state leakage current.

OUTPUT (TA = 25°C)

Load current range		150mA
Max. surge current (10ms)		0.3Apk
Max. turn-on time		0.5ms
Max. turn-off time		0.3ms
Max. leakage current		1μA
On resistance	A mode (1)	50Ω
	B mode (1)	25Ω
	C mode (1)	12.5Ω

APPLICATIONS

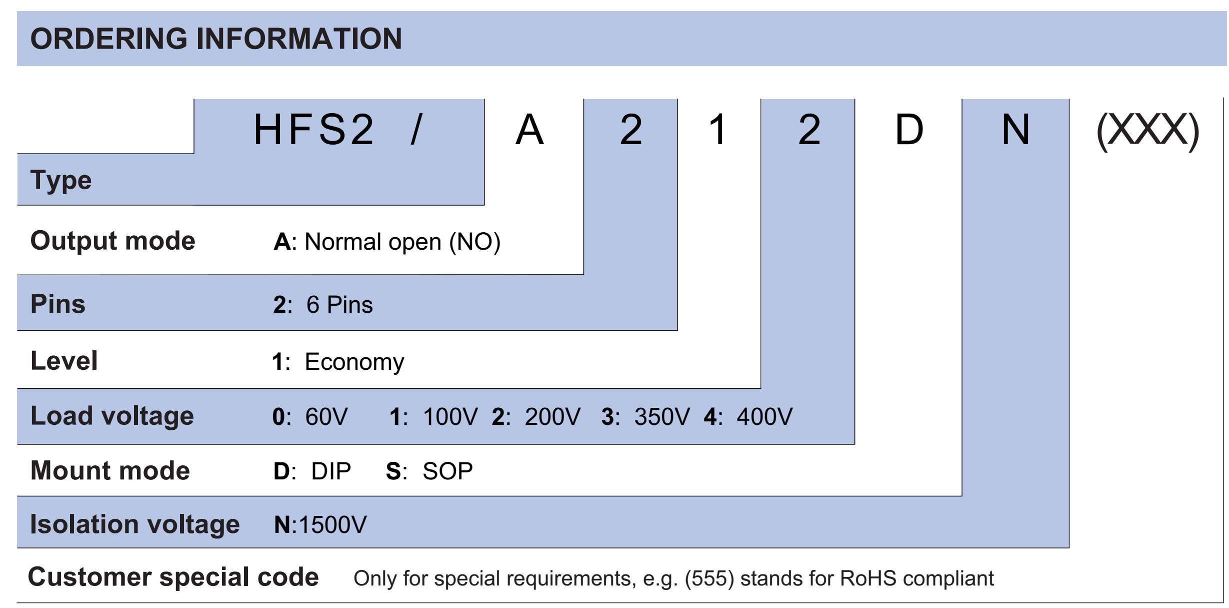
- Telecommunications
- Automatic meter reading
- High speed inspection machines
- Factory automation equipment

GENERAL (TA = 25°C)

Dielectric strength (input to output)	1500VAC, 50Hz/60Hz, 1min
Insulation resistance	1000MΩ (at 500VDC)
Max. capacitance (input to output)	1.5pF
Vibration resistance	10 to 55 Hz 3mm DA
Shock resistance	500g
Operating temperature	-20°C to 80°C
Storage temperature	-40°C to 100°C
Ambient humidity	45% to 85% RH
Unit weight	Approx. 0.6g

Notes: (1) To see terminal wiring diagram.

ORDERING INFORMATION



HFS2 / A 2 1 2 D N (XXX)

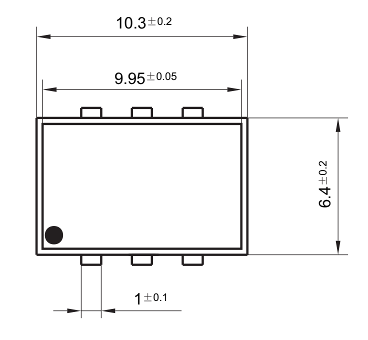
Type		HFS2 /
Output mode	**A**: Normal open (NO)	A
Pins	**2**: 6 Pins	2
Level	**1**: Economy	1
Load voltage	**0**: 60V **1**: 100V **2**: 200V **3**: 350V **4**: 400V	2
Mount mode	**D**: DIP **S**: SOP	D
Isolation voltage	**N**:1500V	N
Customer special code	Only for special requirements, e.g. (555) stands for RoHS compliant	(XXX)

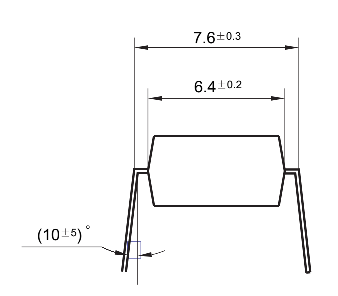
Notes: HFS2 is an environmental friendly product, please mark special code (555) when order.

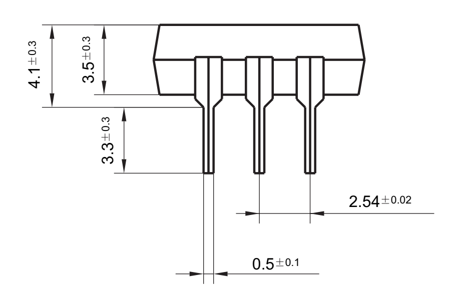
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

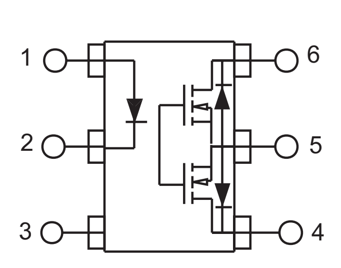
Outline Dimensions





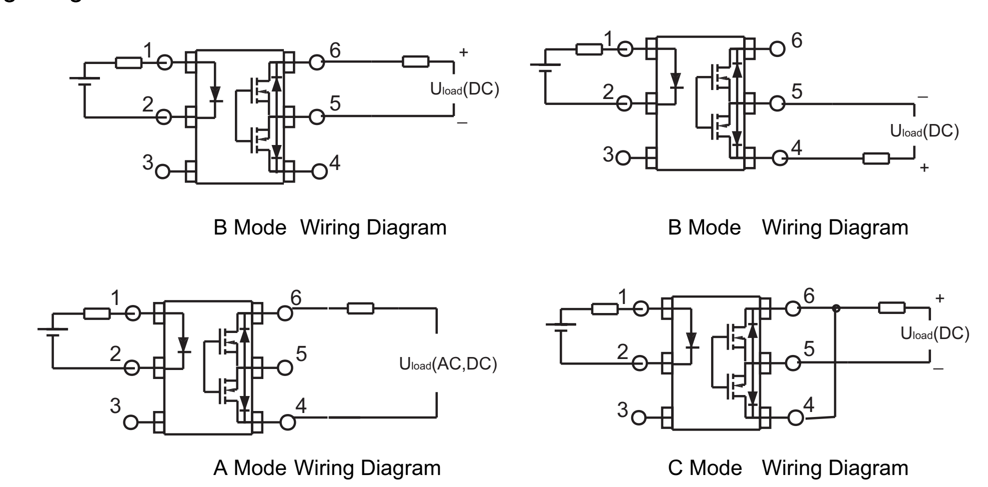


Schematics



WIRING DIAGRAM

Wiring Diagram



B Mode Wiring Diagram   B Mode Wiring Diagram

A Mode Wiring Diagram   C Mode Wiring Diagram

CHARACTERISTIC CURVES

Wiring diagram A mode:

Max. Load Current
vs. Ambient Temperature

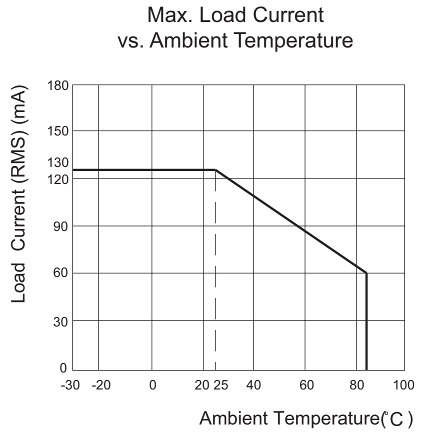
Load Current (RMS) (mA)

180 150 120 90 60 30 0

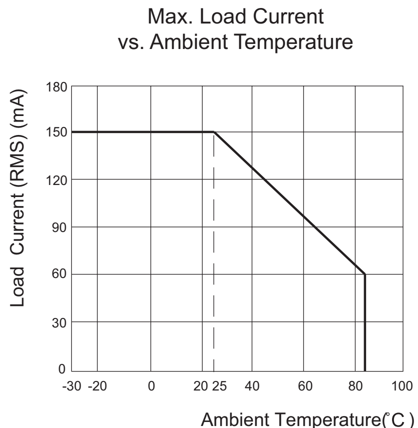
-30 -20 0 20 25 40 60 80 100

Ambient Temperature(°C)

Wiring diagram B mode:



Wiring diagram C mode:



Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.
We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.